

Date: Sun, 13 Jun 93 23:29:48 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #723
To: Info-Hams

Info-Hams Digest Sun, 13 Jun 93 Volume 93 : Issue 723

Today's Topics:

 Daily Solar Geophysical Data Broadcast for 13 June
 Daily Summary of Solar Geophysical Activity for 12 June
 Digital microwave project
 Ham radios in movies
 ICOM W21-AT Experiences & Mods
K7OMA amateur radio theory and code programs uploaded to SIMTEL20
 Making new home HAM FRIENDLY (3 msgs)
 New Radio Shack HT???
 RF and recommendations
 SB-200 Power Supply Problems
 SHIPBOARD RADIO OFFICERS
 Speed of light

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 14 Jun 93 05:42:50 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 13 June
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 164, 06/13/93
10.7 FLUX=086.6 90-AVG=117 SSN=024 BKI=2443 2122 BAI=012
BGND-XRAY=B1.3 FLU1=2.1E+05 FLU10=1.2E+04 PKI=2353 2233 PAI=015
 BOU-DEV=017,046,058,025,012,009,010,017 DEV-AVG=024 NT SWF=00:000
 XRAY-MAX= B6.9 @ 0241UT XRAY-MIN= A7.7 @ 2253UT XRAY-AVG= B2.1
 NEUTN-MAX= +000% @ 0000UT NEUTN-MIN= +000% @ 0000UT NEUTN-AVG= +0.0%

PCA-MAX= +0.0DB @ 0000UT PCA-MIN= +0.0DB @ 0000UT PCA-AVG= +0.0DB
BOUTF-MAX=55374NT @ 0024UT BOUTF-MIN=55334NT @ 1717UT BOUTF-AVG=55357NT
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+072,+000,+000
GOES6-MAX=P:+124NT@ 1442UT GOES6-MIN=N:-090NT@ 0235UT G6-AVG=+099,-019,-052
FLUXFCST=STD:085,085,090;SESC:085,085,090 BAI/PAI-FCST=010,010,010/010,010,010
KFCST=2224 3221 2223 2221 27DAY-AP=013,008 27DAY-KP=3322 2234 2212 2233
WARNINGS=
ALERTS=
!!END-DATA!!

NOTE: The Effective Sunspot Number for 12 JUN 93 was 68.4.
The Full Kp Indices for 12 JUN 93 are: 2- 2- 4- 4o 2+ 2o 2o 3o

Date: Mon, 14 Jun 1993 05:45:51 GMT
From: swrinde!cs.utexas.edu!uwm.edu!linac!att!att-out!cbnews!prm@network.UCSD.EDU
Subject: Daily Summary of Solar Geophysical Activity for 12 June
To: info-hams@ucsd.edu

A lot of people in Northern USA latitudes (ie NE, NY, RI, NJ) had E-skip reception on the commercial FM band on Saturday June 12 between approx 15 and 20Z (GMT). Which of the many parameters in the daily report would be indicative of such favorable conditions.

FYI, RI heard KS, Buffalo NY heard TX, NJ heard TX, TN, and FL, and NE heard North Carolina.

Also, which of the values in the "warnings" might indicate that E-skip would reach the FM band, as a prediction?

Paul Mount
WTFDA (FM TV DX club) member

For a sample issue send \$2 to WTFDA, Box 514, Buffalo NY 14205-0514

Date: Mon, 14 Jun 1993 04:29:58 GMT
From: swrinde!gatech!howland.reston.ans.net!noc.near.net!das-news.harvard.edu!cantaloupe.srv.cs.cmu.edu!news@network.UCSD.EDU
Subject: Digital microwave project
To: info-hams@ucsd.edu

Many of the things you might use an internet connection for are illegal if you use a ham band to get access.

For example, anything related to business/work is out. So is reading any email or posts written by non-hams, due to the restrictions on automatic relaying of third party traffic.

Date: 10 Jun 93 05:55:21 GMT
From: newsflash.concordia.ca!clyde.concordia.ca!altitude!Nyongwa.CAM.ORG!illusion!
mtlnet.gateway@uunet.uu.net
Subject: Ham radios in movies
To: info-hams@ucsd.edu

> From: oo7@emx.cc.utexas.edu (Derek Wills)
> Newsgroups: rec.radio.amateur.misc
> Subject: ham radios in movies
> Organization: The University of Texas at Austin, Austin, Texas
> Date: 7 Jun 1993 14:18:45 -0500
>
> turner@safety.ics.uci.edu (Clark Savage Turner) mentions:
>
>>>That brings up an interesting note....I have seen ham radio
>>>equipment in a number of movies. I wonder if others keep track:
>
>>>The Anderson Tapes - saw the kid use an HW-101 to get help.
>>>The Godzilla movies (forget which one) - saw a Yaesu FTdx 560 used
>>>as
> part of a "death ray" weapon.
>>>Buckaroo Banzai - this little kid keeps in touch with Buckaroo with
>>>a
> Kenwood
> TS-520.
>
>
> One of the James Bond movies (Dr No?) has a KW Vanguard in one of the
> opening scenes - same rig as I used in G-land as a spotty youth. I do
> realize that this dates me.
>
>
> Derek "007" Wills (AA5BT, G3NMX)
> Department of Astronomy, University of Texas,
> Austin TX 78712. (512-471-1392)
> oo7@astro.as.utexas.edu
>
> ---
> * Origin: [nyongwa.cam.org] 7th ILLUSION, InterNet Gateway
> (17:5141/0) SEEN-BY: 1/0 2/0 17/0 412/0 413/0 100 514/0 100 115 210
> 250 5141/0 110

How about these:

Toy Soldiers - Saw the bad guys talking to the outside on a TS-940
Die Hard 2 - Army using a TS-940 with scope for communications. Plus
Kenwood HTs being used by the bad guys.

73,
Dave West WU3J

Date: 14 Jun 93 03:25:36 GMT
From: swrinde!gatech!howland.reston.ans.net!newsserver.jvnc.net!monmouth.edu!
moncol.monmouth.edu!m0244@network.UCSD.EDU
Subject: ICOM W21-AT Experiences & Mods
To: info-hams@ucsd.edu

I was wondering if anybody had purchased this little gem, the
ICOM IC-W21AT. So far, it looks great...Kinda expensive, but
they do give you your moneys worth...,,....

Can anybody point me in the right direction to get a list of
the mods for this radio?

-George G. McBride (m0244@moncol.monmouth.edu)

Thanks!

Date: Mon, 14 Jun 1993 06:08:24 GMT
From: tacom-emh1.army.mil!msdos-ann-request@uunet.uu.net
Subject: K7OMA amateur radio theory and code programs uploaded to SIMTEL20
To: info-hams@ucsd.edu

I have uploaded the following Shareware programs, on behalf of their author;
DaVid R. BarKer, K7OMA, to WSMR-SIMTEL20.Army.Mil and OAK.Oakland.Edu:

pd1:<msdos.hamradio>
MOR21.ZIP K7OMA Morse code tutor
NOV22.ZIP K7OMA Novice class theory exam with graphics
TEC22.ZIP K7OMA Tech. class theory exam with graphics
GEN21.ZIP K7OMA General class theory exam with graphics
ADV21.ZIP K7OMA Advanced class theory exam with graphics
EXT21.ZIP K7OMA Extra class theory exam with graphics

The theory exams use CGA graphics for displaying the various drawings needed. Each theory exam allows for either scanning the entire pool with hints upon request or giving sample tests.

crv

- -

Clyde R. Visser, KD6GWN
cvisser@ucrmath.ucr.edu

Date: Mon, 14 Jun 1993 02:27:44 GMT
From: news.cerf.net!pagesat!spssig.spss.com!feenix.metronet.com!
marcbg@network.UCSD.EDU
Subject: Making new home HAM FRIENDLY
To: info-hams@ucsd.edu

In article <9306132046.AA05762@nms1.abb.com> jennings@abb.COM writes:
>Hello,
>My friend is thinking about having a house built for him and he was wondering
>if you all could offer some suggestions in making his house "ham freindly".
>For instance, having coax run in the walls to his shack or a rotor mast port
>in the roof.
>I'll summarize all the responses for the net.

Here's a tip - make sure he checks out all the special lighting fixtures, timers, touch switches, rheostats, etc., that he plans to install. Some of these items can really cause RFI nightmares!

--

|Marc B. Grant, N5MEI Internet: marcbg@feenix.metronet.com
|P.O. Box 850472 Telephone: 214-231-3998 (voice)
|Richardson, TX 75085-0472 214-231-0025 (fax)

Date: 14 Jun 1993 03:50:58 GMT
From: swrinde!gatech!usenet.ins.cwru.edu!agate!darkstar.UCSC.EDU!cats.ucsc.edu!
haynes@network.UCSD.EDU
Subject: Making new home HAM FRIENDLY
To: info-hams@ucsd.edu

Well, let's see - you want to start with a big sheet of copper underneath the foundation and connected in numerous places with a copper strip that runs all around the radio room. Might as well have computer-type raised floor put in the radio room, and a big duct running through the outer wall. Concrete pads for all the towers, telephone poles for the rhombics.

Acoustical plaster in the radio room.

--

haynes@cats.ucsc.edu

haynes@cats.bitnet

"Ya can talk all ya wanna, but it's dif'rent than it was!"

"No it aint! But ya gotta know the territory!"

Meredith Willson: "The Music Man"

Date: Sun, 13 Jun 93 11:02:59 PDT

From: gumby!destroyer!cs.ubc.ca!mala.bc.ca!oneb!ham!emd@yale.arp

Subject: Making new home HAM FRIENDLY

To: info-hams@ucsd.edu

jennings@abb.COM writes:

> Hello,

>

> My friend is thinking about having a house built for him and he was wondering

> if you all could offer some suggestions in making his house "ham freindly".

> For instance, having coax run in the walls to his shack or a rotor mast port
> in the roof.

> I'll summarize all the responses for the net.

>

> Thanks in advance and 73

>

> Tom Jennings KV2X

>

> jennings@abb.com

For what it's worth, here's what I did when I added a ham shack (closed
in a car port) last year.

Ran a 220 V feed to the new room, and installed a sub breaker panel.

Added electrical outlets everywhere I could concievably want them,
including a 220 outlet for a linear. About 8 of the outlets are switched
by a light switch near the door, to control desk lights, etc.

I prewired a number of telephone jacks - dual ones for the two phone
lines (for the voice and computer lines), at two locations - one at the
computer desk, one near the ham equipment for the phone and patch.
I also added four runs of RG-6 + extra cable through the wall for the
satellite reciever, plus extra shielded audio cables, so that I can feed
the stereo upstairs with satellite audio.

As far as the ham antenna cables go, I would not install the cables within the wall, as the cables normally get replaced and/or changed periodically. I made a plywood door in the ceiling of the shack, put coax feedthrough connectors in it, and feed the cables to the outside between the rafters. The "door" is directly above the ham gear. (I figure on up to fifteen separate antenna feeds, all RG-8 or better)

All in all, I recommend adding extra electrical outlets wherever you could possibly want them. Having a separate sub-panel for the ham shack will also make it easier to switch in a backup generator, but make absolutely sure that if this is done, that there is absolutely no way of back energizing the power company's lines with the generator.

If you absolutely must install antenna cables in walls, use conduits, so that you can change them in the future. (Sooner or later, you'll want to.) Provide for antenna cable on every band you may wish to operate on, even if you don't install 'em right away. For me, for example, that makes a total of 4 VHF feedlines, 2 UHF, 8 HF and 2 spares. YMMV.

Plot it all out on paper, and do it several times. There's always something you forgot.

73, Bob, VE7EMD

Robert Smits
VE7EMD
Ladysmith B.C.
e-mail: emd@ham.almanac.bc.ca

There is *no* idiotproof filter.
Idiots are proof against anything!
- Richard Chycoski, VE7CVS

Date: Mon, 14 Jun 1993 02:24:30 GMT
From: news.cerf.net!pagesat!spssig.spss.com!feenix.metronet.com!
marcbg@network.UCSD.EDU
Subject: New Radio Shack HT???
To: info-hams@ucsd.edu

In article <1993Jun13.010357.28734@ultb.isc.rit.edu> bad1679@ultb.rit.edu () writes:

>Hi Everyone,
>Several weeks I heard from a local Radio Shack Sales Rep that they would
>be coming out with a new Ham Radio Product. Today I stoped by
>Radio Shack again and was told it would be an ht in the \$300 range,
>perhaps a dual/tribander to be released in August.
>Does anyone have any confirmed / concrete information on this new
>product? Specs? Bands of Operation?
>73

>Bernie Nu1S

Radio Shack debuted their 440 HT at Ham-Com, the Dallas/Fort-Worth amateur radio convention. They sold quite a few of the puppies at \$299 a shot minus a special 10% show discount.

I wasn't really impressed, for just about \$75 dollars more if you shop around you can buy an Alinco DJ580 DUAL BAND HT, which seems to be quit a good HT. Nevertheless, you should be seeing it in your local Rat Shack soon. Watch out, 440 repeater dwellers, the Rat Shackers are here!

--

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|P.O. Box 850472 Telephone: 214-231-3998 (voice)
Richardson, TX 75085-0472 214-231-0025 (fax)

Date: Sun, 13 Jun 93 22:09:18 GMT
From: usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!cis.ohio-state.edu!mstar!
n8emr!gws@network.UCSD.EDU
Subject: RF and recomendations
To: info-hams@ucsd.edu

I am looking at purchasing a new truck(oops sport utility) very soon. My current 85 112Kmiles Isuzu troop (1.6L 4cyc) is way underpowered for anything except going to the mall. It tows my 16ft boat but thats about it. I would go to far from home. Would appreciate some input.

First question is for the radio group.

Anyone know of any RF related bugs in any the trucks listed below?
I.E. 2 meter kills the engine,etc. I am most likley to have
less than 50 watts on any band 28mhz to 1296mhz.

Second for the auto group.

Any general comments on any of the trucks below?

Below are some of my choices and general comments.

Isuzu Amigo (No power windows,locks. almost no tow rating)
Isuzu Rodeo (lots of features, lots of tow power/rating)
Isuzu Trooper (looks like a box)
Toyota 4runner (lots of features,towing, but high hard to get into)
Mazda Navaho (2 door only,some power features,sorta boxy)
Ford Explorer (wide range of options,lots of power/towing, slight boxy)
Mitibutzi Montero(sp?) Same a navaho???

Chevy Blazer (power option, but kinda plain looking)

--

Gary W. Sanders gws@n8emr.cmhnet.org, 72277,1325

N8EMR @ N8JYV (ip addr) 44.70.0.1 [Ohio AMPR address coordinator]

HAM BBS 614-895-2553 (1200/2400/V.32/PEP) Voice: 614-895-2552 (eves/weekends)

Date: 14 Jun 93 04:19:28 GMT
From: news-mail-gateway@ucsd.edu
Subject: SB-200 Power Supply Problems
To: info-hams@ucsd.edu

The SB-200 uses a full-wave doubler circuit. It has 8 diodes in series for each of the two arms. The two capacitor strings each consist of three 125 uF 450WVDC capacitors, and each is paralleled by a 30K ohm, 7 watt resistor.
Source: SB-200 manual.

73,
Dube AB5AP <dube@cpdvax.csc.ti.com>

Date: Mon, 14 Jun 93 01:21:15 GMT
From: dog.ee.lbl.gov!newshub.nosc.mil!humu!pegasus!bcollars@network.UCSD.EDU
Subject: SHIPBOARD RADIO OFFICERS
To: info-hams@ucsd.edu

Any Shipboard Radio Officers (Active or Retired) please contact me, as I am desperately seeking info on career outlook, licensing, etc. My E-mail is bcollars@pegasus.com

Aloha and TNX

:

Date: Sat, 12 Jun 1993 14:50:39 EDT
From: usc!howland.reston.ans.net!gatech!psuvax1!psuvm!ucf1vm!
jmeaker@network.UCSD.EDU
Subject: Speed of light
To: info-hams@ucsd.edu

The thread that would not die

|Two people who had best remain anonymous said:

|
|>>Interestingly, Eistein not withsatnding, the speed of light is slowing down.
|>>Until a few years ago, this was quite evident in the periodic measurements
|>>that were done. Then they started measuring the speed of light using atomic
|>>clocks. Lo and behold, the speed of light is now a constant. They attriubted
|>>that to more accurate measurements and better techniques. However, it actually
|>>is due to the fact that the atomic resonances are ALSO slowing down. Even te
|>>"constants" of the universe are subject to the second law of thermodynamics
|>>as is all of creation.

|
|>I could be wrong, but I think the speed of light is now constant because it
|>was decided to fix it as a constant and make any further refinements by
|>adjusting the length of a second.

|
|
| Is it April 1 already? My calendar must be slow!
| ^^^

| If that isn't proof that the speed of light is slowing down
| dramatically, I don't know what is!

|
|
| Derek Wills (AA5BT, G3NMX)
| Department of Astronomy, University of Texas,
| Austin TX 78712. (512-471-1392)
| oo7@astro.as.utexas.edu

That would also account for why 10 Meters is less active than it was a few years ago. The critical angle of the radio waves with respect to the ionosphere has changed enough so they are passing right through it. Within a few years 20 Meters will be merely a local band and the only available long haul DX will be on 160!

John Meaker
kd4ras

Date: Mon, 14 Jun 1993 02:19:21 GMT
From: news.cerf.net!pagesat!spssig.spss.com!feenix.metronet.com!
marcbg@network.UCSD.EDU
To: info-hams@ucsd.edu

References <21870037@hplvec.LVLD.HP.COM>, <C8H6no.614@world.std.com>,
<p4z3t*8uv@lhaven.UUmh.Ab.Ca>
Subject : NO CHARGE REPLACEMENT FOR 530 ANTENNA

OK. This is the third time I'm reposting this, so listen carefully:

For those FT-530 owners ONLY:

Yeadu will replace FREE OF CHARGE the 'rubber resistor' on the FT-530 for the more effective antenna on the FT-470.

I have been using this antenna on my 530 for 5 months now and it works exceptionally well, including 800/900 Mhz receive.

To get the new antenna, merely call Yeasu in California at 310-404-2700 and get the Amateur Radio Parts Department. Tell them you have a 530 (you'll have to fax or send them proof of purchase) and they will send you the antenna for the 470.

You don't have to go out and spend any money, just the price of phone call, a fax and/or a 29 cent stamp.

Happy rubber ducky!

--

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| P.O. Box 850472 Telephone: 214-231-3998 (voice)
Richardson, TX 75085-0472 214-231-0025 (fax)

Date: Sun, 13 Jun 1993 14:20:08 EST
From: anomaly.sbs.com!kd1nr!news@uunet.uu.net
To: info-hams@ucsd.edu

References <C8FqJs.1Hr@zeno.fit.edu>, <dmcireyno-110693082520@134.5.142.4>,
<1993Jun11.150745.9462@uhura.neoucom.edu>
Subject : Re: Digital microwave project

wtm@uhura.neoucom.edu (Bill Mayhew) writes:

> There is a nice Amateur allocation at 10.0 - 10.5 GHz, and
> commercially available 10.55 GHz Gunnplexers are easily tuned to
> this range by simple adjustment of a tuning slug screw. The
> amateur allocation is available to all but Novice license holders.
> You can operate there by taking two relatively easy multiple choice
> examinations (in the US). The amateur service is limited to
> strictly non commercial applications and operators must not operate
> in broadcast mode, transmit music, or transmit profane material,
> etc.

Now here's a good question. At breakfast today my friend and I were talking about possibly installing a 10GHz link between my house and his (about 1.5 miles apart) and using it as a SL/IP connection.

Now I know that profane/obscene material isn't permitted but all the stuff is sent compressed and unreadable unless you're running uucico etc. What is the legality of this? I mean, music can be transmitted, as digital (midi files, etc) so what would the issue be with passing alt.sex.stories in coded format? Just out of sheer curiosity of course.

And a SL/IP connection stays up all the time. Would this be considered as broadcasting even if you ID'd all the time? There are alot of "if's" to consider when passing data over amateur radio frequencies.

```
-----
Tony Pelliccio kd1nr/ae      "Usenet is like a herd of performing elephants
*!*!*!*!*!*!*!*!*!*!*      with diarrhea -- massive, difficult to
system@garlic.sbs.com        redirect, awe-inspiring, entertaining, and a
-----                        source of mind-boggling amounts of excrement
                               when you least expect it."  --spaf (1992)
```

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Date: Sun, 13 Jun 1993 22:31:51 GMT
From: spsgate!mogate!newsgate!latium!markm@uunet.uu.net
To: info-hams@ucsd.edu
```

References <1993Jun10.100315.29894@ke4zv.uucp>, <1v7p0aINNo2l@mojo.eng.umd.edu>, <1993Jun12.151939.8349@ke4zv.uucp>
Reply-To : markm@latium (Mark Monninger)
Subject : Re: Field Day Power

Someone mentioned Honda generators being quiet...a little story...

A friend and I were camping in N. Az. last summer and took along a Honda generator I borrowed from another friend. We set it out in the woods away from the camp at the end of a 50 ft extension cord and used it to run the rig and charge batteries. One evening we were running it when a bunch of deer ambled out of the woods. One of them walked right up to the generator, sniffled at it, and calmly walked away. Wish I had a camera at the time. It's a 650 W unit. I was impressed by it.

73... Mark AA7TA

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Date: 14 Jun 93 05:46:50 GMT
```

From: swrinde!cs.utexas.edu!uwm.edu!msuinfo!netnews.upenn.edu!mipg.upenn.edu!
yee@network.UCSD.EDU
To: info-hams@ucsd.edu

References <jfhC8F0vC.EqD@netcom.com>, <130637@netnews.upenn.edu>,
<930612.191535.3G2.rusnews.w165w@garlic.sbs.com>
Subject : Re: Callbook server

In article <930612.191535.3G2.rusnews.w165w@garlic.sbs.com>, system@garlic.sbs.com
(Tony Pelliccio) writes:

|> yee@mipg.upenn.edu (Conway Yee) writes:

|>

|> >

|> >>He's a potential user. Who is the database for, if not for its users?

|> >

|> > I will have to beg to differ. The users have no say in the matter. The

|> > fact that the service exists at all is due to the benevolence of a few

|> > hams. Those who do not pay for the service have no call to complain.

|> >

|> >>The CD's cost what, about \$25-\$30?

|> >

|> > That isn't the point. If the user is not willing to pay for the service

|> > provided, he has absolutely no say on the level of service. Beggars can't

|> > be choosers.

|> >

|> >>Alas, volunteers who do things expecting thanks are often doomed to

|> >>disappointment. Shouldn't be that way, but it is.

|> >

|> > True. quite true. I try to make it a practice to thank people for the

|> > services provided (e.g. the old wizvax anonymous service on alt.sex.bondage).

|> > In general, the service providers are very surprised at the thank you not.

|>

|> But I see one problem with all these arguments. If they're not getting

|> the support they "expect" then pull the plug. It's quite simple really.

I agree with you completely; this is utterly within the prerogative of the
service provider. I am afraid that I am unable to see the disagreement
between you and me.

--

411 Blockley Hall		Conway Yee, N2JWQ
418 Service Drive		yee@ming.mipg.upenn.edu (preferred)
Philadelphia, PA 19104		cy5@cunixa.cc.columbia.edu (forwarded to above)
(215) 662-6780		

End of Info-Hams Digest V93 #723
